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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Bertero et al.

Title: Magnetic Recording Media with Improved Exchange Coupling

Serial No.: 10/075,123

Filing Date: 2/12/02

Examiner: Kevin M Bernatz

Art Unit: 1773

Docket No.: K2000023

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

## DECLARATION PURSUANT TO RULE 37 CFR 1.131

I, Gerardo Bertero, declare:

1. I am a coinventor in the above-mentioned patent application.
2. The subject matter of claims 13, 17, 18-21 and 40-45 was invented prior to August 14, 2001.
3. Application Figs. 9A and 9B (as originally filed) were created before August 14, 2001. Fig. 9B contains data that was collected using a magnetic disk. The magnetic disk comprised a substrate, a Cr alloy underlayer, a Co alloy first magnetic layer, a Ru intermediate layer, and a Co alloy second magnetic layer. The first magnetic layer was antiferromagnetically coupled to the second magnetic layer.
4. The data in Fig. 9B was collected by placing the disk in a fixture comprising a read-write head and a motor for spinning the disk. Data was recorded in the disk using

the read-write head while the motor spun the disk, and the output signal generated by the disk was repeatedly measured using the read-write head while the motor spun the disk.

5. For data recording densities 72 kFCI and greater, Fig. 9B shows that the first (lower) magnetic layer reached more than 95% of its steady state value within one revolution of the disk, and within 15 ms after termination of the write pulse.

6. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Respectfully Submitted,

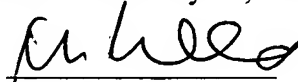
Gerardo Bertero  
Gerardo Bertero

1-14-04  
Date

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on February 10, 2004.

February 10, 2004

Date

A handwritten signature in black ink, appearing to be "J. H. Lee", written over a horizontal line.

Signature